

# United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/743,436	03/12/2001	Makoto Inoue	450108-02595	2310
20999	7590 11/17/2003		EXAMINER	
FROMMER LAWRENCE & HAUG			RADA, ALEX P	
	AVENUE- 10TH FL. L, NY 10151		ART UNIT	PAPER NUMBER
	,	•	3714	1 / -
			DATE MAILED: 11/17/2003	[ Y

Please find below and/or attached an Office communication concerning this application or proceeding.

			_
	Application No.	Applicant(s)	
	09/743,436	INOUE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Alex P. Rada	3714	
The MAILING DATE of this communication for Reply	ation appears on the cover sh	eet with the correspondence add	fress
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNIC.  - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commun.  - If the period for reply specified above, the maximum statut.  - Failure to reply within the set or extended period for reply will.  - Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).  Status	ATION. 37 CFR 1.136(a). In no event, however, ication. days, a reply within the statutory minimultory period will apply and will expire SIX il, by statute, cause the application to bed	may a reply be timely filed  n of thirty (30) days will be considered timely. (6) MONTHS from the mailing date of this coreone ABANDONED (35 U.S.C. § 133).	
1) Responsive to communication(s) filed	on <u>06 September 2003</u> .		
2a)⊠ This action is FINAL. 2b)	☐ This action is non-final.		
3) Since this application is in condition fo closed in accordance with the practice			merits is
Disposition of Claims			
4) ☑ Claim(s) 19-29 is/are pending in the appearance 4a) Of the above claim(s) is/are 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 19-29 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction	withdrawn from consideration		
Application Papers			
9) The specification is objected to by the I 10) The drawing(s) filed on is/are: a Applicant may not request that any objection Replacement drawing sheet(s) including the second or declaration is objected to be second or declaration is objected to be second or declaration is objected to be second or declaration.	a) accepted or b) object on to the drawing(s) be held in a ne correction is required if the d	abeyance. See 37 CFR 1.85(a). rawing(s) is objected to. See 37 CF	
12) Acknowledgment is made of a claim fo	or foreign priority under 35 H	S.C. & 119(a) <sub>-</sub> (d) or (f)	
a) All b) Some * c) None of:  1. Certified copies of the priority do  2. Certified copies of the priority do  3. Copies of the certified copies of application from the International  * See the attached detailed Office action of the since a specific reference was included in the foreign language.  13) The translation of the foreign language.	ocuments have been received the priority documents have been received the priority documents have all Bureau (PCT Rule 17.2(a)) for a list of the certified copied domestic priority under 35 Lin the first sentence of the spuage provisional application domestic priority under 35 L	d. d in Application No been received in this National S ). es not received. J.S.C. § 119(e) (to a provisional pecification or in an Application I has been received. J.S.C. §§ 120 and/or 121 since a	application) Data Sheet. a specific
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTC 3) Information Disclosure Statement(s) (PTO-1449) Pap	D-948) 5) Not	erview Summary (PTO-413) Paper No(s ice of Informal Patent Application (PTO- er:	

Art Unit: 3714

#### DETAILED ACTION

## Response to Amendment

In response to the amendment filed September 6, 2003 in which the applicant's have provided arguments to the previous office action, added new claims 28-29, and claims 19-29 are pending in this office action.

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 19 and 28-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kubo 1659 in view of Su '714.
- 3. Kubo discloses a pet robot, light emitting means being apparent eyes provided on the head unit (figure 1), a control means for controlling the flashing of the light emitting means (column 6, line 61 column 7, line 7). Kubo does not expressly disclose a semi-transparent cover.

Su teaches a doll having a semi-transparent cover (column 1, lines 49-60) over each eye. The examiner interprets the apparent (light emitting) eyes to be seen only when the light emitting means flash or turned on. By having a semi-transparent cover over each eye, one of ordinary skill in the art would be able to provide an animated and realistic effect of a doll (column 1, lines 13-16). Therefore, it would have been obvious to one of ordinary skill in the art the time of the

Art Unit: 3714

applicant's invention was made to modify the eyes of Kubo to each include a semi-transparent cover as taught by Su. To do so would provide an animate and realistic effect to a doll.

At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to different transparent shades or colors because applicant has not disclosed that the transparent covers that is dark and black semi-transparent cover provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected applicant's invention to perform equally well with the equivalent teaching of Su because having different semi-transparent shades would provide the same function of an animate and realistic effect to a doll.

- 4. Claims 20-21 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kubo 1659 in view of Su '714 as applied to claim 19 above, and further in view of Ho '223.
- 5. Kubo in view of Su disclose the claimed invention as discussed above except for a plurality of lighting emitting means each having a different shape and /or color of light as recited in claim 20; The shape and /or color of each light emitting means having a shape and /or color so as to match the different emotion as recited in claim 21; and The plurality of light emitting means are arranged at prescribed position of the head unit in the direction of the head unit as recited in claim 27.

Ho teaches a plurality of lighting emitting means each having a different shape and /or color of light, the shape and /or color of each light emitting means having a shape and /or color so as to match the different emotion, and the plurality of light emitting means are arranged at prescribed position of the head unit in the direction of the head unit. By having different shapes and patters of light for different emotion, one of ordinary skill in the art would be able to provide

colorful light with different expression. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the applicant's invention was made to modify the robot of Kubo to include a plurality of lighting emitting means each having a different shape and /or color of light, the shape and /or color of each light emitting means having a shape and /or color so as to match the different emotion, and the plurality of light emitting means are arranged at prescribed position of the head unit in the direction of the head unit as taught by Ho. To do so would be able to provide different expressions with colorful emitting lights.

Page 4

- Claims 22-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kubo 1659 6. in view of Su '714 and Ho '223 as applied to claims 20-21 and 27 above, and further in view of Kamiya `772.
- 7. Kubo in view of Su and Ho disclose the claimed invention as discussed above except for an external sensor for detecting surrounding and/or inputs from the outside as recited in claim 22; The control means determines own emotion based on the outputs of the external sensor and previously-provided emotion models created by modeling emotion and selectively makes appropriate determined emotion as recited in claim 23; The light emitting means flash in a flashing pattern suitable for the determined emotion as recited in claim 24; The flashing pattern is a flashing cycle as recited in claim 25; and The pet robot having a moving unit and a driving means as recited in claim 26.

Kamiya teaches an external sensor for detecting surrounding and/or inputs from the outside, the control means determines own emotion based on the outputs of the external sensor and previously-provided emotion models created by modeling emotion and selectively makes appropriate determined emotion, the light emitting means flash in a flashing pattern suitable for Application/Control Number: 09/743,436

Art Unit: 3714

the determined emotion, the flashing pattern is a flashing cycle, and the pet robot having a moving unit and a driving means. By having external sensors to receive different inputs, one of ordinary skill in the art would be able to trigger a more human like expression. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Kubo in view of Ho to include an external sensor for detecting surrounding and/or inputs from the outside, the control means determines own emotion based on the outputs of the external sensor and previously-provided emotion models created by modeling emotion and selectively makes appropriate determined emotion, the light emitting means flash in a flashing pattern suitable for the determined emotion, the flashing pattern is a flashing cycle, and the pet robot having a moving unit and a driving means as taught by Kamiya. To do so would provide an interactive robot with pseudo-emotions to communicate to a use

### Response to Arguments

8. Applicant's arguments filed September 6, 2003 have been fully considered but they are not persuasive.

The applicant contends that the Kubo reference does not suggest replacing the transparent cover 30 with a semi-transparent cover nor does it suggest an incentive or a need to do so.

In response to applicant's argument that there is no suggestion to combine the references. the examiner agrees that Kubo reference does not suggest replacing the transparent cover 30 with a semi-transparent cover nor does it suggest an incentive or a need to do so. However the Su reference teaches a doll having a semi-transparent cover (column 1, lines 49-60) over each eye. By having a semi-transparent cover over each eye, one of ordinary skill in the art would be able

Page 5

Art Unit: 3714

to provide an animated and realistic effect of a doll. The motivation to combine Su to Kubo is found on column 1, lines 13-16 of Su.

In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

#### Conclusion

9. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alex P. Rada whose telephone number is 703-308-7135. The examiner can normally be reached on Monday - Friday, 08:00-16:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Hughes can be reached on 703-308-1806. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1148.

Jok Apr

> S. THOMAS HOUTES SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700